



DEUTSCH QPL CONTACTS

THE PERFORMANCE LEADER FOR
MIL-SPEC CONTACTS

QUICK REFERENCE GUIDE

High Performance

- Achieve enhanced durability – 1500 cycles (insertion/withdrawals)
- Terminate to aluminum or standard wires

More Compatibility

- Use with full range of mil-spec connectors
- Meet ASE/EN requirements

DEUTSCH QPL CONTACTS AND TOOLS

Contact Part Number		Contact Size	Insertion/ Removal Tool				Crimping			
			Insertion		Removal		Crimp Tool		Positioner	
Military Part No.	TE Part No.	AWG	M81969 Slash No.	TE Part No.	M81969 Slash No.	TE Part No.	M22520 Slash No.	TE Part No.	M22520 Slash No.	TE Part No.
M29600 Contacts										
M29600/23 Socket Contacts (For AS29600 Connectors)										
/23-606	12343-23	23/22	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-16	2-601966-2
/23-607	12343-20	20	/16-01	2031741-1	/16-01	2031741-1	/2-01	601966-1	/2-17	2-601966-3
/23-608	12343-16	16	/16-02	2844644-1	/16-02	2844644-1	/2-01	601966-1	/2-18	2844624-1
M29600/23 Pin Contacts (For AS29600 Connectors)										
/24-610	12341-23	23/22	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-13	2-601966-0
/24-611	12341-20	20	/16-01	2031741-1	/16-01	2031741-1	/2-01	601966-1	/2-14	2-201966-1
/24-612	12341-16	16	/16-02	2844644-1	/16-02	2844644-1	/2-01	601966-1	/2-15	2844625-1
M39029 Contacts										
M39029/1 Pin Contacts (For AS81714 Series I Terminal System)										
/1-100	2560-214-1631	16/22	/14-10	2031843-1	/14-10	2031843-1	/2-01	601966-1	/2-11	1-601966-5
/1-101	2560-215-1631L	16/20	/14-10	2031843-1	/14-10	2031843-1	/1-01	601967-1	/1-02	601967-2
/1-102	2560-216-1431	14/16	/14-03	2031840-1	/14-03	2031840-1	/2-01	601966-1	/2-11	1-601966-5
/1-103	2560-217-1231	12	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
/1-507	2560-218-2031	20/22D	/14-01	2844645-1	/14-01	2844645-1	/2-01	601967-1	/2-32	2844626-1
			/1-04	2844646-1	/1-04	2844646-1				
			/8-01	2844657-1	/8-01	2844657-1				
			/8-02	2844651-1	/8-02	2844651-1				
M39029/4 Pin Contacts (For MIL-DTL-26482 Series II, -83723 Series III, -83733, and AS81703 Connectors)										
/4-110	0641-1-2031L	20	/14-11	2031844-1	/14-11	2031844-1	/1-01	601967-1	/1-02	601967-2
			/8-205	2844647-1	/8-206	2844648-1	/2-01	601966-1	/2-02	601966-2
/4-111	0641-2-1631L	16	—	—	—	—	/7-01	2031850-1	/7-02	2844636-1
			/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
			/8-207	2031752-1	/8-208	2031784-1	/7-01	2031850-1	/7-03	2844635-1
/4-112	109026-31	16/20	/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
			/8-207	2031752-1	/8-208	2031784-1	/7-01	2031850-1	/7-03	2844635-1
/4-113	0614-3-1231L	12	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
			/8-209	2031753-1	/8-210	2031783-1				
/4-114	109028-31L	12/16	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
			/8-209	2031753-1	/8-210	2031783-1				
M39029/5 Socket Contacts (For MIL-DTL-26482 Series II, -83723 Series III, -83733, and AS81703 Connectors)										
/5-115	100503L	20	/14-11	2031844-1	/14-11	2031844-1	/1-01	601967-1	/1-02	601967-2
			/8-205	2844647-1	/8-206	2844648-1	/2-01	601966-1	/2-02	601966-2
/5-116	100504L	16	—	—	—	—	/7-01	2031850-1	/7-02	2844636-1
			/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
			/8-207	2031752-1	/8-208	2031784-1	/7-01	2031850-1	/7-03	2844635-1
/5-117	109027	16/20	/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
			/8-207	2031752-1	/8-208	2031784-1	/7-01	2031850-1	/7-03	2844635-1
/5-118	100505L	12	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
			/8-209	2031753-1	/8-210	2031783-1				
/5-119	109029	12/16	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
			/8-209	2031753-1	/8-210	2031783-1				
M39029/10 Socket Contacts — Thermocouples (For MIL-DTL-26482 Series II, -83723 Series III, -83733, and AS81703 Connectors)										
/10-521	7362-225-1601	16	/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
							/7-01	2031850-1	/7-03	2844635-1
/10-522	7362-226-1601	16	/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
							/7-01	2031850-1	/7-03	2844635-1
M39029/11 Pin Contacts (For AS81659 Series II Connectors)										
/11-144	2560-212-2231	22	/1-01	2844649-1	/1-01	2844649-1	/2-01	601966-1	/2-23	601966-8
/11-145	2560-212-2031	20	/1-02	2844650-1	/1-02	2844650-1	/2-01	601966-1	/2-08	601966-5
							/7-01	2031850-1	/7-02	2844636-1
M39029/12 Socket Contacts (For AS81659 Series II Connectors)										
/12-148	2562-209-2231	22	/1-01	2844649-1	/1-01	2844649-1	/2-01	601966-1	/2-23	601966-8
/12-149	2562-209-2031	20	/1-02	2844650-1	/1-02	2844650-1	/2-01	601966-1	/2-08	601966-5
							/7-01	2031850-1	/7-02	2844636-1
M39029/16 Socket Contacts (For AS81511 Series IV Connectors)										
/16-166	81542-238	23/28	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-13	2-601966-0
/16-167	81542-23	23/22	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-13	2-601966-0
/16-168	81542-20	20	/16-01	2031741-1	/16-01	2031741-1	/2-01	601966-1	/2-14	2-601966-1
/16-169	81542-16	16	/16-02	2844644-1	/16-02	2844644-1	/2-01	601966-1	/2-15	2844625-1
/16-170	81542-12	12	/16-03	2031818-1	/16-03	2031818-1	/1-01	601967-1	/1-09	2844627-1
M39029/17 Socket Contacts (For AS81511 Series III Connectors)										
/17-171	81543-238	23/28	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-16	2-601966-2
/17-172	81543-23	23/22	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-16	2601966-2
/17-173	81543-20	20	/16-01	2031741-1	/16-01	2031741-1	/2-01	601966-1	/2-17	2-601966-3
/17-174	81543-16	16	/16-02	2844644-1	/16-02	2844644-1	/2-01	601966-1	/2-18	2844624-1
/17-175	81543-12	12	/16-03	2031818-1	/16-03	2031818-1	/1-01	601967-1	/1-10	2844628-1

Part numbers ending in trailing L are available with localized gold plating, according to ASTM B 488, Type II, Code C: 50 micro-inches over nickel underplating. For full plating, remove the trailing L. Italicized part numbers are for the TE's Evreux facility. All others are for TE's Oceanside facility. For wire size, a double number indicates Mating End/Crimp End.

DEUTSCH QPL CONTACTS AND TOOLS

Contact Part Number		Contact Size	Insertion/ Removal Tool				Crimping			
			Insertion		Removal		Crimp Tool		Positioner	
Military Part No.	TE Part No.	AWG	M81969 Slash No.	TE Part No.	M81969 Slash No.	TE Part No.	M22520 Slash No.	TE Part No.	M22520 Slash No.	TE Part No.
M39029 Contacts										
M39029/18 Pin Contacts (For AS81511 Series III and IV Connectors)										
/18-176	81541-238	23/28	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-13	2-601966-0
/18-177	81541-23	23/22	/16-04	2031768-1	/16-04	2031768-1	/2-01	601966-1	/2-13	2601966-0
/18-178	81541-20	20	/16-01	2031741-1	/16-01	2031741-1	/2-01 /7-01	601966-1 2031850-1	/2-14 /7-02	2-601966-1 2844636-1
/18-179	81541-16	16	/16-02	2844644-1	/16-02	2844644-1	/2-01 /7-01	601966-1 2031850-1	/2-15 /7-03	2844625-1 2844635-1
/18-180	81541-12	12	/16-03	2031818-1	/16-03	2031818-1	/1-01	601967-1	/1-09	2844627-1
M39029/22 Socket Contacts (For AS81714 Series II Terminal System and AS81511 Series III and IV Connectors)										
/22-191	CTS-S22/22	22	/14-01	2844645-1	/14-01	2844645-1	/7-01	2031850-1	/7-11	2844629-1
/22-192	CTS-S20/20	20	/14-10	2031843-1	—	—	/7-01	2031850-1	/7-12	2844630-1
/22-193	CTS-S16/16	16	/14-03	2031840-1	—	—	/7-01	2031850-1	/7-13	2844631-1
/22-605	CTS-S12/12	12	/8-10 /16-03	2031786-1 2031818-1	— —	— —	/1-01	601967-1	/2-34 /31-02	2844632-1 2844637-1
M39029/28 Pin Contacts • Coax (For MIL-DTL-38999 Series I, II, III, and IV Connectors)										
/28-211	6162-233-1277	12	/8-09 /14-04	2844659-1 2031841-1	/8-10 /14-04	2031786-1 2031841-1	/2-01 /31-01	601966-1 2844622-1	/2-34 /31-02	2844632-1 2844637-1
/28-409	6162-234-1277	12	/8-09 /14-04	2844659-1 2031841-1	/8-10 /14-04	2031786-1 2031841-1	/2-01 /31-01	601966-1 2844622-1	/2-34 /31-02	2844632-1 2844637-1
/28-414	6162-239-1277	12	/8-09 /14-04	2844659-1 2031841-1	/8-10 /14-04	2031786-1 2031841-1	/2-01 /31-01	601966-1 2844622-1	/2-34 /31-02	2844632-1 2844637-1
M39029/29 Pin Contacts (For AS50151, MS5450, and MIL-DTL-83723 Series II Connectors)										
/29-212	0660-206-1631L	16	/14-03	2031840-1	/14-03	2031840-1	/1-01 /7-01	601967-1 2031850-1	/1-02 /7-03	601967-2 2844635-1
/29-213	0660-206-1282	12	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
/29-214	0660-206-0882	8	—	—	/14-06	2844652-1	/23-01	2844620-1	—	—
/29-215	0660-206-0482	4	—	—	/14-07	2844653-1	/23-01	2844620-1	—	—
/29-216	0660-206-0082	0	—	—	/14-08	2844654-1	/23-01	2844620-1	—	—
M39029/30 Socket Contacts (For AS50151, MS5450, and MIL-DTL-83723 Series II Connectors)										
/30-217	0662-212-1631L 182-0400-16	16S/16	/14-03	2031840-1	/14-03	2031840-1	/1-01 /7-01	601967-1 2031850-1	/1-02 /7-03	601967-2 2844635-1
/30-218	0662-207-1631L	16	/14-03	2031840-1	/14-03	2031840-1	/1-01	601967-1	/1-02	601967-2
/30-219	0662-207-1282	12	/14-04	2031841-1	/14-04	2031841-1	/1-01	601967-1	/1-02	601967-2
/30-220	0662-207-0882	8	—	—	/14-06	2844652-1	/23-01	2844620-1	—	—
/30-221	0662-207-0482	4	—	—	/14-07	2844653-1	/23-01	2844620-1	—	—
/30-222	0662-207-0082	0	—	—	/14-08	2844654-1	/23-01	2844620-1	—	—
M39029/31 Pin Contacts (For MIL-DTL-26482 Series I and -26500 Connectors)										
/31-228	4160-203-1631L	16	/14-03 /17-04	2031840-1 2844655-1	/19-01	2031776-1	/1-01 /7-01	601967-1 2031850-1	/1-02 /7-03	601967-2 2844635-1
/31-229	4160-204-1631L	16	/14-03 /17-04	2031840-1 2844655-1	/19-01	2031776-1	/1-01 /7-01	601967-1 2031850-1	/1-02 /7-03	601967-2 2844635-1
/31-240	0004-058-100L	20	/14-10 /17-03	2031843-1 2844656-1	/19-06	2031778-1	/1-01 /2-01 /7-01	601967-1 601966-1 2031850-1	/1-02 /2-02 /7-02	601967-2 601966-2 2844636-1
/31-627	4160-202-2031L	20	/14-10 /17-03	2031843-1 2844656-1	/19-06	2031778-1	/1-01 /2-01 /7-01	601967-1 601966-1 2031850-1	/1-02 /2-02 /7-02	601967-2 601966-2 2844636-1
M39029/32 Socket Contacts (For MIL-DTL-26482 Series I and -26500 Connectors)										
/32-247	4162-201-1631L	16	/14-03 /17-04	2031840-1 2844655-1	/19-01	2031776-1	/1-01 /7-01	601967-1 2031850-1	/1-02 /7-03	601967-2 2844635-1
/32-248	4162-202-1631L	16	/14-03 /17-04	2031840-1 2844655-1	/19-01	2031776-1	/1-01 /7-01	601967-1 2031850-1	/1-02 /7-03	601967-2 2844635-1
/32-259	0007-008-100L	20	/14-10 /17-03	2031843-1 2844656-1	/19-06	2031778-1	/1-01 /2-01 /7-01	601967-1 601966-1 2031850-1	/1-02 /2-02 /7-02	601967-2 601966-2 2844636-1
/32-260	4109-207-2000L	20	/14-10 /17-03	2031843-1 2844656-1	/19-06	2031778-1	/1-01 /2-01 /7-01	601967-1 601966-1 2031850-1	/1-02 /2-02 /7-02	601967-2 601966-2 2844636-1
M39029/56 Socket Contacts (For MIL-DTL-38999 Series I, III, and IV and EN3645 Connectors)										
/56-348	38943-22L 724-0007-22	22/22D	/14-01 /8-01	2844645-1 2844657-1	/14-01 /8-02	2844645-1 2844651-1	/2-01 /7-01	601966-1 2031850-1	/2-07 /7-05	1-601966-3 2844638-1
/56-351	38943-20L 724-0007-20	20	/14-10 /8-05	2031843-1 2031747-1	/14-10 /8-06	2031843-1 2031802-1	/2-01 /7-01 /1-01	601966-1 2031850-1 601967-1	/2-10 /7-08 /1-04	1-601966-4 2844639-1 601967-3
/56-352	38943-16L 724-0007-16	16	/14-03 /8-07	2031840-1 2844658-1	/14-03 /8-08	2031840-1 2031787-1	/1-01 /7-01	601967-1 2031850-1	/1-04 /7-04	601967-3 2844640-1
/56-353	38943-12L 724-0007-12	12	/14-04 /8-09	2031841-1 2844659-1	/14-04 /8-10	2031841-1 2031786-1	/1-01	601967-1	/1-04	601967-3

Part numbers ending in trailing L are available with localized gold plating, according to ASTM B 488, Type II, Code C: 50 micro-inches over nickel underplating. For full plating, remove the trailing L.
 Italicized part numbers are for the TE's Evreux facility. All others are for TE's Oceanside facility.
 For wire size, a double number indicates Mating End/Crimp End.

Contact Part Number		Contact Size	Insertion/ Removal Tool				Crimping			
Military Part No.	TE Part No.		Insertion		Removal		Crimp Tool		Positioner	
		AWG	M81969 Slash No.	TE Part No.	M81969 Slash No.	TE Part No.	M22520 Slash No.	TE Part No.	M22520 Slash No.	TE Part No.
M39029 Contacts										
M39029/83 Pin Contacts (For MIL-DTL-28840 Connectors)										
/83-450	2560-221-2031	20/22	/33-01	2844662-1	/34-01	2031780-1	/34-01	2844621-1	/34-02	2844634-1
/83-451	2560-222-2031	20/28	/33-01	2844662-1	/34-01	2031780-1	/34-01	2844621-1	/34-02	2844634-1
/83-508	2560-220-2031	20	/33-01	2844662-1	/34-01	2031780-1	/34-01	2844621-1	/34-02	2844634-1
M39029/84 Socket Contacts (For MIL-DTL-28840 Connectors)										
/84-452	2562-214-2031	20/22	/33-01	2844662-1	/34-01	2031780-1	/34-01	2844621-1	/34-02	2844634-1
/84-453	2562-215-2031	20/28	/33-01	2844662-1	/34-01	2031780-1	/34-01	2844621-1	/34-02	2844634-1
/84-509	2562-213-2031	20	/33-01	2844662-1	/34-01	2031780-1	/34-01	2844621-1	/34-02	2844634-1
M39029/90 Pin Contacts • Twinax (For MIL-DTL-38999 Series III and IV Connectors)										
/90-529	6162-283-0877	8	/14-12	2844663-1	/14-12	2844663-1	/2-01 /5-01	601966-1 608650-1	/2-37 /5-105	2844660-1 2844643-1
M39029/91 Socket Contacts • Twinax (For MIL-DTL-38999 Series III and IV Connectors)										
/91-530	6162-284-0877	8	/14-12	2844663-1	/14-12	2844663-1	/2-01 /5-01	601966-1 608650-1	/2-37 /5-105	2844660-1 2844643-1
M39029/101 Socket Contacts (For MIL-DTL-12883 Sockets and MIL-PRF-Relays)										
/101-553	1662-213-2031	20	/16-01	2031741-1	/16-01	2031741-1	/7-01 /1-01	2031850-1 601967-1	/7-12	2844630-1
/101-554	1662-213-1631	16	/16-02	2844644-1	/16-02	2844644-1	/7-01	2031850-1	/7-13	2844631-1
M39029/102 Pin Contacts • Coax (For MIL-DTL-38999 Series III and IV Connectors)										
/102-558	6162-324-1231	12	/8-09 /14-04	2844659-1 2031841-1	/8-10 /14-04	2031786-1 2031841-1	/5-01	608650-1	—	—
M39029/103 Socket Contacts • Coax (For MIL-DTL-38999 Series III and IV Connectors)										
/103-559	6162-325-1231	12	/8-09 /14-04	2844659-1 2031841-1	/8-10 /14-04	2031786-1 2031841-1	/5-01	608650-1	—	—
M39029/106 Socket Contacts (For MIL-DTL-38999 Series III and IV, AS29600 Series A, and EN3645 Connectors)										
/106-614	12333-22 182-0447-22	22/22D	/14-01 /8-01	2844645-1 2844657-1	/14-01 /8-02	2844645-1 2844651-1	/2-01 /7-01	601966-1 2031850-1	/2-07 /7-05	1-601966-3 2844638-1
/106-615	12333-20 182-0447-16	20	/14-10 /8-05	2031843-1 2031747-1	/14-10 /8-06	2031843-1 2031802-1	/1-01 /2-01	601967-1 601966-1	/1-04 /2-10	601967-3 1-601966-4
/106-616	12333-16 182-0447-16	16	— /14-03	— 2031840-1	— /14-03	— 2031840-1	/7-01 /1-01	2031850-1 601967-1	/7-08 /1-04	2844639-1 601967-3
/106-617	12333-12 182-0447-12	12	/14-04 /8-09	2031841-1 2844659-1	/14-04 /8-10	2031841-1 2031786-1	/1-01	601967-1	/1-04	601967-3
M39029/107 Pin Contacts (For MIL-DTL-38999 Series III and IV, AS29600 Series A, and EN3645 Connectors)										
/107-620	12331-22 182-0441-22	22/22D	/14-01 /8-01	2844645-1 2844657-1	/14-01 /8-02	2844645-1 2844651-1	/2-01 /7-01	601966-1 2031850-1	/2-07 /7-05	1-601966-3 2844638-1
/107-621	12331-20 182-0441-20	20	/14-10 /8-05	2031843-1 2031747-1	/14-10 /8-06	2031843-1 2031802-1	/1-01 /2-01	601967-1 601966-1	/1-04 /2-10	601967-3 1-601966-4
/107-622	12331-16 182-0441-16	16	— /14-03	— 2031840-1	— /14-10	— 2031843-1	/7-01 /1-01	2031850-1 601967-1	/7-08 /1-04	2844639-1 601967-3
/107-623	12331-12 182-0441-12	12	/14-04 /8-09	2031841-1 2844659-1	/14-04 /8-10	2031841-1 2031786-1	/1-01	601967-1	/1-04	601967-3

Part numbers ending in trailing L are available with localized gold plating, according to ASTM B 488, Type II, Code C: 50 micro-inches over nickel underplating. For full plating, remove the trailing L. Italicized part numbers are for the TE's Evreux facility. All others are for TE's Oceanside facility. For wire size, a double number indicates Mating End/Crimp End.

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